The Huntsman Marine Laboratory

# Densities of Freshwater Fishes (Non-Atlantic Salmon), Restigouche River System, New Brunswick, 1972-78

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Freshwater and Anadromous Division
Resource Branch
Department of Fisheries and Oceans
Halifax, Nova Scotia

October, 1979

**Canadian Data Report of Fisheries and Aquatic Sciences No. 166**

Government of Canada
Fisheries and Oceans

Gouvernement du Canada
Pêches et Océans

2008-03556/

CA8ØØØØ44

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# DENSITIES OF FRESHWATER FISHES (NON-ATLANTIC SALMON), RESTIGOUCHE RIVER SYSTEM, NEW BRUNSWICK 1972-78

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Cat. No. Fs 52-2/1979-0166 ISSN 0706-6465

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## ABSTRACT

Pickard, P.R. and J.L. Peppar. 1979. Densities of freshwater fishes (non-Atlantic salmon), Restigouche River system, New Brunswick, 1972-78. Can. Data Rep. Fish. Aquat. Sci. No. 166. 26 p.

Electroseining operations were conducted throughout the freshwater reaches of the Restigouche River system, New Brunswick, to determine population densities of the fish species present. Though the main emphasis of these operations was placed on deriving juvenile Atlantic salmon population estimates, data were also collected on the other species present. This report presents the calculated densities obtained from these operations over the period 1972-78, for all species other than Atlantic salmon, and includes data on areas sampled, average depths and water temperatures of the individual sites sampled.


Key words: Restigouche River, electroseining, population density, non-salmon species, area sampled, water depth, water temperature.


## RÉSUMÉ

Pickard, P.R. and J.L. Peppar. 1979. Densities of freshwater fishes (non-Atlantic salmon), Restigouche River system, New Brunswick, 1972-78. Can. Data Rep. Fish. Aquat. Sci. No. 166. 26 p.

Des opérations d'électrosennage ont été menées dans les affluents d'eau douce du réseau de la rivière Restigouche, au Nouveau-Brunswick, afin de déterminer la densité de population des espèces de poissons présentes. Bien que le principal objectif du programme consistât à évaluer la densité de population du jeune saumon atlantique, ces activités ont également rendu possible la collecte de données sur d'autres espèces. Le présent rapport contient le calcul des densités pour tous les poissons autres que le saumon atlantique, obtenues à l'aide des échantillonnages effectués de 1972 à 1978, ainsi que les données sur les zones échantillonnées et la profondeur moyenne et la température de l'eau des lieux étudiés.


Mots clés: Rivière Restigouche, électrosennage, densité de population, espèces autres que le saumon, zone échantillonnée, profondeur de l'eau, température de l'eau.

## INTRODUCTION

Electroseining operations, to determine population densities of fish species present, were conducted yearly throughout the freshwater reaches of the Restigouche River system, New Brunswick, over the period 1972-78. Operations each year concentrated on the repetition of sites sampled in previous years, so that consecutive-year comparisons could be drawn. The main emphasis of these operations was placed on deriving juvenile Atlantic salmon population estimates; however, data were also collected on the other species present.

Calculated densities (numbers/83.6 $m^2$ or 100 $yd^2$) of juvenile Atlantic salmon for all sites sampled during 1972-78 by the electroseining operations have been presented (Peppar and Pickard 1979). This report summarizes calculated densities obtained for all other fish species captured from these operations. Miscellaneous data (areas sampled, average depths and water temperatures) collected during the operations are also presented.

## SCOPE OF OPERATIONS

The electroseining operations were conducted on a number of selected streams throughout the Restigouche River system (Figure). Most of these streams were inaccessible for much of their length; thus, sampling sites had to be selected in areas of reasonable access by standard vehicles.

## METHODS AND PRESENTATION OF DATA

All methods employed in the actual electroseining operations and used in deriving the population estimates have been presented (Peppar and Pickard 1979). Miscellaneous data collected from the operations and summarized in the tables to follow include: areas of sites sampled (total enclosed area/site sampled), average depths of sites (average depth of each site, based on a minimum of usually nine measurements) and water temperatures of sites (taken within each site, just prior to seining operations). These data are summarized for all individual sites by year, over the seven years of sampling.

The calculated densities of all species obtained for the individual sites sampled each year are summarized. These species include:

| Designation in table | Common name | Scientific name |
|---|---|---|
| Lamprey | Sea lamprey | *Petromyzon marinus* |
| Eel | American eel | *Anguilla rostrata* |
| Trout | Brook trout | *Salvelinus fontinalis* |
| Dace | Blacknose dace | *Rhinichthys atratulus* |
| Shiner | Common shiner | *Notropis cornutus* |
| Sucker | White sucker | *Catostomus commersoni* |
| Stickleback | Threespine stickleback | *Gasterosteus aculeatus* |
| | Brook stickleback | *Culaea inconstans* |
| | Ninespine stickleback | *Pungitius pungitius* |
| Sculpin | Slimy sculpin | *Cottus cognatus* |

The preceding list includes the species or "species-groups", other than Atlantic salmon, most often represented in the electroseining catches. Species named represent the most commonly captured (or in some cases, exclusively captured) representatives of each of these species or "species-groups". Common and scientific names given are those recommended by the American Fisheries Society (1970).

## RESULTS

The streams and corresponding numbers of sites where electroseining operations were conducted are summarized (Table 1); the table also indicates total area sampled and numbers of each species or "species-group" captured each year.

Calculated densities of species obtained for each stream and individual site sampled are presented (Tables 2-9). Miscellaneous data are summarized for each site and year (Tables 10-16).

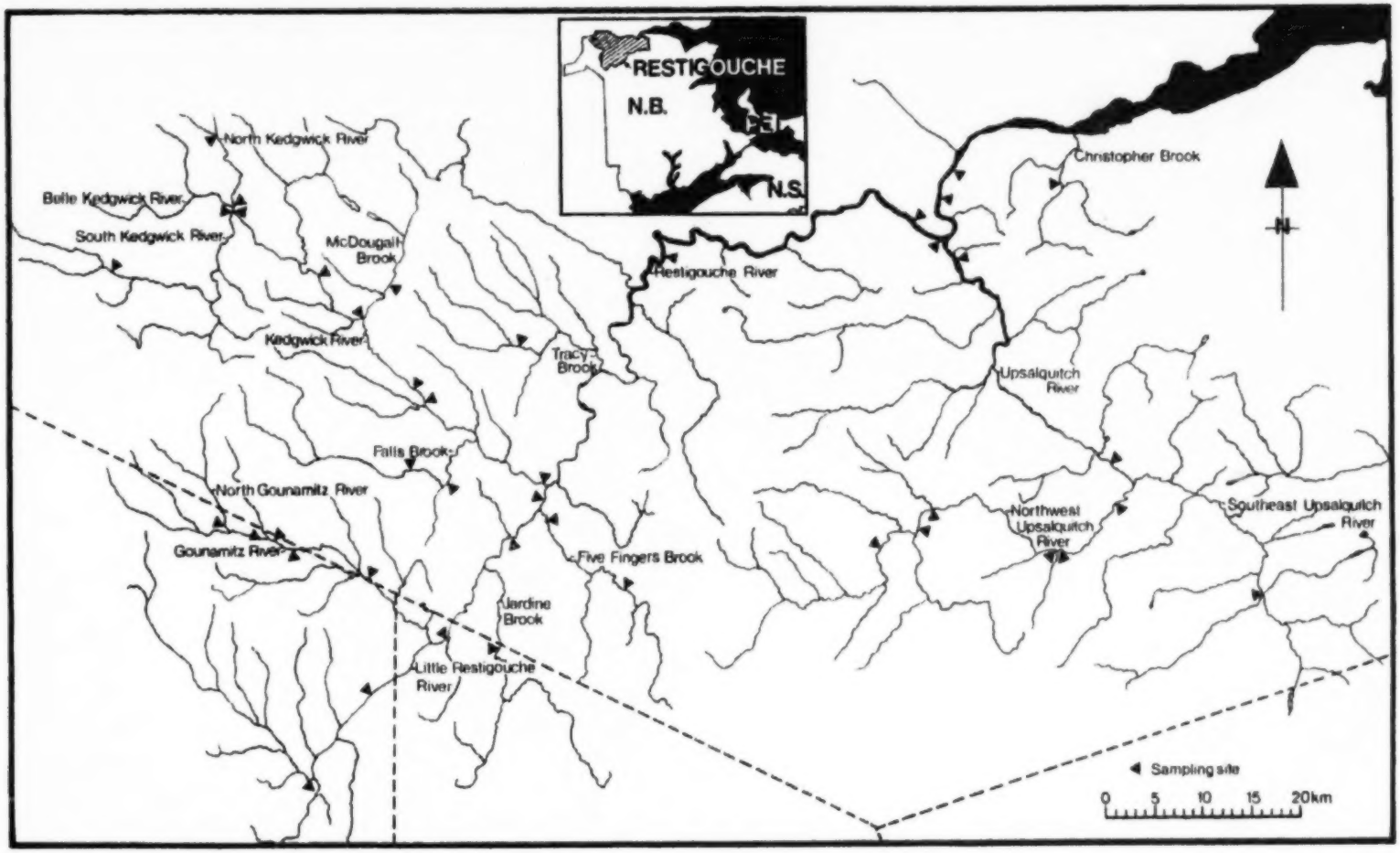


FIG. Restigouche River System, showing the location of electroseining sampling sites.

TABLE 1. Streams and corresponding numbers of sites on the Restigouche River system where electroseining operations were conducted, 1972-78.

| Stream | Numbers of sites sampled | | | | | | |
|---|---|---|---|---|---|---|---|
| | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 |
| Main Restigouche River | 2 | 4 | 4 | 5 | 5 | 5 | 5 |
| Upsalquitch River | - | 4 | 4 | 4 | 3 | 5 | 8 |
| Kedgwick River | 3 | 4 | 5 | 5 | 5 | 5 | 5 |
| Belle Kedgwick River | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| North Kedgwick River | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| South Kedgwick River | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Gounamitz River | 3 | 3 | 3 | 4 | 4 | 4 | 4 |
| North Gounamitz River | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Five Fingers Brook | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| Jardine Brook | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Little Main Restigouche River | 2 | 2 | 2 | 3 | 3 | 5 | 5 |
| Christopher Brook | - | - | - | 1 | 1 | 1 | 1 |
| Tracy Brook | - | - | - | - | - | - | 1 |
| Totals | 18 | 25 | 26 | 31 | 30 | 34 | 38 |
| Total area sampled ($m^2$) | 5,757 | 7,923 | 9,088 | 9,947 | 9,238 | 10,517 | 11,521 |
| Average area per site ($m^2$) | 320 | 317 | 350 | 321 | 308 | 309 | 303 |
| Total numbers of fish captured: | | | | | | | |
| Lamprey | 3 | 8 | 6 | 9 | 8 | 2 | 5 |
| Eel | 28 | 38 | 32 | 97 | 22 | 39 | 32 |
| Trout | 132 | 252 | 221 | 241 | 161 | 44 | 101 |
| Dace | 219 | 453 | 763 | 426 | 430 | 324 | 236 |
| Shiner | 8 | 32 | 17 | 12 | 0 | 5 | 0 |
| Sucker | 7 | 2 | 3 | 2 | 3 | 7 | 5 |
| Stickleback | 0 | 1 | 4 | 6 | 7 | 9 | 1 |
| Sculpin | 1,729 | 4,939 | 4,653 | 5,223 | 3,001 | 1,922 | 2,490 |

TABLE 2. Calculated densities of lamprey, as determined by electroseining operations in the Restigouche River system, 1972-78.

| Stream | Site number | Density per 100 yd² (83.6 m²) 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 |
|---|---|---|---|---|---|---|---|---|
| Restigouche River | 26 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 27 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 28 | - | <1 | <1 | <1 | <1 | <1 | <1 |
| | 29 | - | <1 | <1 | <1 | <1 | <1 | <1 |
| | 34 | - | - | - | <1 | <1 | <1 | <1 |
| Upsalquitch River | A | - | - | - | - | - | <1 | <1 |
| | B | - | - | - | - | - | - | <1 |
| | 1B | - | - | - | - | - | - | <1 |
| | D | - | <1 | <1 | <1 | <1 | <1 | <1 |
| | E | - | <1 | <1 | <1 | <1 | <1 | <1 |
| | G | - | <1 | <1 | <1 | <1 | <1 | <1 |
| | H | - | <1 | <1 | <1 | - | <1 | <1 |
| | L | - | - | - | - | - | - | <1 |
| Kedgwick River | 1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 2 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 3 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 15 | - | <1 | <1 | <1 | <1 | <1 | <1 |
| | 31 | - | - | <1 | <1 | <1 | <1 | <1 |
| Belle Kedgwick River | 6 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| North Kedgwick River | 5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 8 | 1.0 | <1 | <1 | <1 | 1.6 | <1 | <1 |
| South Kedgwick River | 7 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 14 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Gounamitz River | 9 | 0.0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 11 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 12 | - | 0.0 | - | 0.0 | 0.0 | 0.0 | 0.0 |
| | 13 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| North Gounamitz River | 23 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Five Fingers Brook | 19 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 32 | - | - | - | <1 | <1 | <1 | <1 |
| Jardine Brook | 20 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Little Main Restigouche River | 21 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 22 | 0.0 | 0.0 | - | - | - | 0.0 | 0.0 |
| | 30 | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 35 | - | - | - | 0.0 | 0.0 | 0.0 | 0.0 |
| | 36 | - | - | - | - | - | 0.0 | 0.0 |
| Christopher Brook | 33 | - | - | - | 0.0 | 0.0 | 0.0 | 0.0 |
| Tracy Brook | 25 | - | - | - | - | - | - | 0.0 |
| Overall mean | | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total number of estimates | | 18 | 25 | 26 | 31 | 30 | 34 | 38 |

TABLE 3. Calculated densities of American eel, as determined by electroseining operations in the Restigouche River system, 1972-78.

| Stream | Site number | Density per 100 yd² (83.6 m²) 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 |
|---|---|---|---|---|---|---|---|---|
| Restigouche River | 26 | 1.3 | <1 | <1 | 1.5 | <1 | 1.4 | <1 |
| | 27 | <1 | <1 | 1.0 | 2.2 | <1 | 2.7 | 1.8 |
| | 28 | - | <1 | <1 | 1.5 | 1.8 | <1 | <1 |
| | 29 | - | <1 | <1 | <1 | <1 | <1 | <1 |
| | 34 | - | - | - | 3.3 | <1 | <1 | <1 |
| Upsalquitch River | A | - | - | - | - | - | <1 | <1 |
| | B | - | - | - | - | - | - | <1 |
| | 1B | - | - | - | - | - | - | <1 |
| | D | - | <1 | <1 | <1 | <1 | <1 | <1 |
| | E | - | <1 | <1 | <1 | <1 | <1 | <1 |
| | G | - | <1 | <1 | 1.1 | <1 | <1 | 1.1 |
| | H | - | <1 | <1 | <1 | - | <1 | <1 |
| | L | - | - | - | - | - | - | <1 |
| Kedgwick River | 1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 2 | 2.0 | 12.8 | <1 | <1 | <1 | <1 | <1 |
| | 3 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 15 | - | <1 | <1 | <1 | <1 | <1 | <1 |
| | 31 | - | - | <1 | <1 | <1 | <1 | <1 |
| Belle Kedgwick River | 6 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| North Kedgwick River | 5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 8 | 1.7 | <1 | 2.3 | 2.8 | <1 | <1 | 1.1 |
| South Kedgwick River | 7 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 14 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Gounamitz River | 9 | 0.0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 11 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 12 | - | 0.0 | - | 0.0 | 0.0 | 0.0 | 0.0 |
| | 13 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| North Gounamitz River | 23 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Five Fingers Brook | 19 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 32 | - | - | - | <1 | <1 | <1 | <1 |
| Jardine Brook | 20 | <1 | 1.0 | <1 | 2.1 | <1 | <1 | <1 |
| Little Main Restigouche River | 21 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 22 | <1 | <1 | - | - | - | <1 | <1 |
| | 30 | - | - | <1 | 5.3 | 1.4 | <1 | 1.2 |
| | 35 | - | - | - | <1 | <1 | <1 | <1 |
| | 36 | - | - | - | - | - | <1 | <1 |
| Christopher Brook | 33 | - | - | - | 0.0 | 0.0 | 0.0 | 0.0 |
| Tracy Brook | 25 | - | - | - | - | - | - | 0.0 |
| Overall mean | | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total number of estimates | | 18 | 25 | 26 | 31 | 30 | 34 | 38 |

TABLE 4. Calculated densities of brook trout, as determined by electroseining operations in the Restigouche River system, 1972-78.

| Stream | Site number | Density per 100 yd² (83.6 m²) 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 |
|---|---|---|---|---|---|---|---|---|
| Restigouche River | 26 | <1 | <1 | <1 | <1 | 1.2 | <1 | <1 |
| | 27 | <1 | <1 | <1 | <1 | 2.3 | <1 | <1 |
| | 28 | - | <1 | <1 | <1 | 2.0 | <1 | <1 |
| | 29 | - | <1 | <1 | <1 | 1.7 | <1 | <1 |
| | 34 | - | - | - | <1 | <1 | <1 | <1 |
| Upsalquitch River | A | - | - | - | - | - | <1 | <1 |
| | B | - | - | - | - | - | - | <1 |
| | 1B | - | - | - | - | - | - | 2.2 |
| | D | - | <1 | <1 | <1 | 1.1 | <1 | 1.4 |
| | E | - | <1 | 1.2 | <1 | <1 | <1 | <1 |
| | G | - | <1 | 2.0 | <1 | <1 | <1 | 1.1 |
| | H | - | <1 | <1 | <1 | - | <1 | <1 |
| | L | - | - | - | - | - | - | <1 |
| Kedgwick River | 1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 2 | <1 | 1.2 | <1 | <1 | 1.7 | <1 | <1 |
| | 3 | 6.0 | 1.0 | 2.8 | 4.1 | 2.1 | <1 | <1 |
| | 15 | - | 11.8 | 6.0 | 7.3 | 2.0 | <1 | <1 |
| | 31 | - | - | <1 | <1 | 3.3 | <1 | <1 |
| Belle Kedgwick River | 6 | 8.7 | 5.4 | 4.1 | 8.7 | 3.0 | 1.0 | 2.0 |
| North Kedgwick River | 5 | <1 | <1 | <1 | 1.7 | 1.8 | <1 | <1 |
| | 8 | <1 | 25.7 | 13.6 | 12.8 | 7.0 | 1.5 | <1 |
| South Kedgwick River | 7 | <1 | 2.1 | <1 | 1.9 | <1 | <1 | <1 |
| | 14 | <1 | 1.2 | 2.1 | 16.1 | 2.3 | <1 | <1 |
| Gounamitz River | 9 | <1 | - | <1 | <1 | <1 | <1 | <1 |
| | 11 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 12 | - | 4.1 | - | 2.5 | 3.9 | <1 | <1 |
| | 13 | 5.2 | 2.0 | 2.6 | 1.9 | <1 | <1 | <1 |
| North Gounamitz River | 23 | 6.0 | 7.1 | 13.2 | 4.7 | 4.0 | 2.1 | <1 |
| Five Fingers Brook | 19 | 4.5 | 8.9 | 3.7 | 6.4 | <1 | <1 | 3.4 |
| | 32 | - | - | - | 4.2 | <1 | <1 | 3.9 |
| Jardine Brook | 20 | 9.1 | 4.0 | 2.0 | 3.9 | 1.0 | <1 | <1 |
| Little Main Restigouche River | 21 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 22 | <1 | <1 | - | - | - | <1 | <1 |
| | 30 | - | - | <1 | <1 | <1 | <1 | <1 |
| | 35 | - | - | - | 1.6 | 2.5 | 1.0 | <1 |
| | 36 | - | - | - | - | - | <1 | <1 |
| Christopher Brook | 33 | - | - | - | 3.8 | <1 | <1 | <1 |
| Tracy Brook | 25 | - | - | - | - | - | - | 6.6 |
| Overall mean | | 2.5 | 3.2 | 2.3 | 2.9 | 1.6 | <1 | 1.0 |
| Total number of estimates | | 18 | 25 | 26 | 31 | 30 | 34 | 38 |

TABLE 5. Calculated densities of dace, as determined by electroseining operations in the Restigouche River system, 1972-78.

| Stream | Site number | Density per 100 yd² (83.6 m²) 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 |
|---|---|---|---|---|---|---|---|---|
| Restigouche River | 26 | 16.0 | 14.2 | <1 | 2.9 | 5.9 | 1.3 | 1.0 |
| | 27 | 1.1 | 1.3 | 10.2 | 6.3 | 6.0 | 8.9 | 10.5 |
| | 28 | - | 19.9 | 14.4 | 9.7 | 9.0 | 2.3 | 1.8 |
| | 29 | - | 33.3 | 9.3 | 28.8 | 18.6 | 1.0 | 1.4 |
| | 34 | - | - | - | 4.0 | 21.7 | <1 | 61.9 |
| Upsalquitch River | A | - | - | - | - | - | 1.8 | <1 |
| | B | - | - | - | - | - | - | 2.4 |
| | 1B | - | - | - | - | - | - | 2.8 |
| | D | - | <1 | 2.1 | 4.7 | 1.5 | 3.1 | <1 |
| | E | - | 7.6 | 22.9 | 18.9 | 1.6 | <1 | <1 |
| | G | - | 11.0 | 10.9 | 8.7 | 17.8 | 7.5 | 14.9 |
| | H | - | 15.5 | 17.5 | 6.0 | - | 10.1 | 3.6 |
| | L | - | - | - | - | - | - | <1 |
| Kedgwick River | 1 | <1 | 1.3 | 9.4 | 14.3 | 1.4 | 1.0 | <1 |
| | 2 | 3.7 | 10.2 | 1.7 | 3.2 | 2.8 | <1 | 4.0 |
| | 3 | 11.5 | 3.6 | 9.1 | 6.4 | 2.1 | 3.5 | 3.1 |
| | 15 | - | <1 | <1 | <1 | <1 | <1 | <1 |
| | 31 | - | - | 6.5 | 5.2 | 17.4 | 22.2 | 1.2 |
| Belle Kedgwick River | 6 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| North Kedgwick River | 5 | 1.7 | 1.3 | 1.1 | 2.2 | <1 | 1.5 | 1.3 |
| | 8 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| South Kedgwick River | 7 | 2.8 | <1 | <1 | 1.6 | <1 | <1 | <1 |
| | 14 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Gounamitz River | 9 | <1 | - | <1 | <1 | <1 | <1 | <1 |
| | 11 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 12 | - | <1 | - | <1 | <1 | <1 | <1 |
| | 13 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| North Gounamitz River | 23 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Five Fingers Brook | 19 | 8.3 | 2.1 | <1 | 1.6 | 1.4 | 2.1 | <1 |
| | 32 | - | - | - | 8.0 | 3.3 | <1 | 2.7 |
| Jardine Brook | 20 | 2.2 | 1.7 | 1.2 | 1.1 | <1 | 2.7 | 1.3 |
| Little Main Restigouche River | 21 | 24.0 | 3.5 | 76.5 | 1.7 | <1 | 4.0 | 2.2 |
| | 22 | <1 | <1 | - | - | - | 12.9 | 6.7 |
| | 30 | - | - | 6.5 | 14.7 | 6.8 | <1 | 3.4 |
| | 35 | - | - | - | 1.3 | 1.1 | <1 | <1 |
| | 36 | - | - | - | - | - | <1 | <1 |
| Christopher Brook | 33 | - | - | - | 0.0 | 0.0 | 0.0 | 0.0 |
| Tracy Brook | 25 | - | - | - | - | - | - | 0.0 |
| Overall mean | | 4.2 | 5.3 | 7.9 | 5.0 | 4.2 | 2.8 | 3.6 |
| Total number of estimates | | 18 | 25 | 26 | 31 | 30 | 34 | 38 |

TABLE 6. Calculated densities of shiner, as determined by electroseining operations in the Restigouche River system, 1972-78.

| Stream | Site number | Density per 100 yd² (83.6 m²) 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 |
|---|---|---|---|---|---|---|---|---|
| Restigouche River | 26 | 2.5 | <1 | <1 | <1 | <1 | 1.4 | <1 |
| | 27 | <1 | <1 | 1.5 | 1.5 | <1 | <1 | <1 |
| | 28 | - | 3.2 | <1 | <1 | <1 | <1 | <1 |
| | 29 | - | 3.5 | <1 | <1 | <1 | <1 | <1 |
| | 34 | - | - | - | <1 | <1 | <1 | <1 |
| Upsalquitch River | A | - | - | - | - | - | <1 | <1 |
| | B | - | - | - | - | - | - | <1 |
| | 1B | - | - | - | - | - | - | <1 |
| | D | - | <1 | <1 | <1 | <1 | <1 | <1 |
| | E | - | <1 | <1 | <1 | <1 | <1 | <1 |
| | G | - | <1 | <1 | <1 | <1 | <1 | <1 |
| | H | - | <1 | <1 | <1 | - | <1 | <1 |
| | L | - | - | - | - | - | - | <1 |
| Kedgwick River | 1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 2 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 3 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 15 | - | <1 | <1 | <1 | <1 | <1 | <1 |
| | 31 | - | - | <1 | <1 | <1 | <1 | <1 |
| Belle Kedgwick River | 6 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| North Kedgwick River | 5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 8 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| South Kedgwick River | 7 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 14 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Gounamitz River | 9 | 0.0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 11 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 12 | - | 0.0 | - | 0.0 | 0.0 | 0.0 | 0.0 |
| | 13 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| North Gounamitz River | 23 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Five Fingers Brook | 19 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 32 | - | - | - | 0.0 | 0.0 | 0.0 | 0.0 |
| Jardine Brook | 20 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Little Main Restigouche River | 21 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 22 | 0.0 | 0.0 | - | - | - | 0.0 | 0.0 |
| | 30 | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 35 | - | - | - | 0.0 | 0.0 | 0.0 | 0.0 |
| | 36 | - | - | - | - | - | 0.0 | 0.0 |
| Christopher Brook | 33 | - | - | - | 0.0 | 0.0 | 0.0 | 0.0 |
| Tracy Brook | 25 | - | - | - | - | - | - | 0.0 |
| Overall mean | | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total number of estimates | | 18 | 25 | 26 | 31 | 30 | 34 | 38 |

TABLE 7. Calculated densities of sucker, as determined by electroseining operations in the Restigouche River system, 1972-78.

| Stream | Site number | Density per 100 yd³ (83.6 m³) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 |
| Restigouche River | 26 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 27 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 28 | - | <1 | <1 | <1 | <1 | <1 | <1 |
| | 29 | - | <1 | <1 | <1 | <1 | <1 | <1 |
| | 34 | - | - | - | <1 | <1 | <1 | <1 |
| Upsalquitch River | A | | - | - | - | - | <1 | <1 |
| | B | - | - | - | - | - | - | <1 |
| | 1B | - | - | - | - | - | - | <1 |
| | D | - | <1 | <1 | <1 | <1 | <1 | <1 |
| | E | - | <1 | <1 | <1 | <1 | <1 | <1 |
| | G | - | <1 | <1 | <1 | <1 | 1.8 | <1 |
| | H | - | <1 | <1 | <1 | - | <1 | <1 |
| | L | - | - | - | - | - | - | <1 |
| Kedgwick River | 1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 2 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 3 | 1.3 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 15 | - | <1 | <1 | <1 | <1 | <1 | <1 |
| | 31 | - | - | <1 | <1 | <1 | <1 | <1 |
| Belle Kedgwick River | 6 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| North Kedgwick River | 5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 8 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| South Kedgwick River | 7 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 14 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Gounamitz River | 9 | 0.0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 11 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 12 | - | 0.0 | - | 0.0 | 0.0 | 0.0 | 0.0 |
| | 13 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| North Gounamitz River | 23 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Five Fingers Brook | 19 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 32 | - | - | - | <1 | <1 | <1 | <1 |
| Jardine Brook | 20 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Little Main Restigouche River | 21 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 22 | <1 | <1 | - | - | - | <1 | <1 |
| | 30 | - | - | <1 | <1 | <1 | <1 | <1 |
| | 35 | - | - | - | <1 | <1 | <1 | <1 |
| | 36 | - | - | - | - | - | <1 | <1 |
| Christopher Brook | 33 | - | - | - | 0.0 | 0.0 | 0.0 | 0.0 |
| Tracy Brook | 25 | - | - | - | - | - | - | 0.0 |
| Overall mean | | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total number of estimates | | 18 | 25 | 26 | 31 | 30 | 34 | 38 |

TABLE 8. Calculated densities of stickleback, as determined by electroseining operations in the Restigouche River system, 1972-78.

| Stream | Site number | Density per 100 yd² (83.6 m²) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 |
| Restigouche River | 26 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 27 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 28 | - | <1 | <1 | <1 | <1 | <1 | <1 |
| | 29 | - | <1 | <1 | <1 | 2.7 | <1 | <1 |
| | 34 | - | - | - | <1 | <1 | <1 | <1 |
| Upsalquitch River | A | - | - | - | - | - | 0.0 | 0.0 |
| | B | - | - | - | - | - | - | 0.0 |
| | 1B | - | - | - | - | - | - | 0.0 |
| | D | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | E | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | G | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | H | - | 0.0 | 0.0 | 0.0 | - | 0.0 | 0.0 |
| | L | - | - | - | - | - | - | 0.0 |
| Kedgwick River | 1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 2 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 3 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 15 | - | <1 | <1 | <1 | <1 | <1 | <1 |
| | 31 | - | - | <1 | <1 | <1 | <1 | <1 |
| Belle Kedgwick River | 6 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| North Kedgwick River | 5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 8 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| South Kedgwick River | 7 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 14 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Gounamitz River | 9 | 0.0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 11 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 12 | - | 0.0 | - | 0.0 | 0.0 | 0.0 | 0.0 |
| | 13 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| North Gounamitz River | 23 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Five Fingers Brook | 19 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 32 | - | - | - | 1.8 | <1 | <1 | <1 |
| Jardine Brook | 20 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Little Main Restigouche River | 21 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 22 | <1 | <1 | - | - | - | 3.4 | <1 |
| | 30 | - | - | <1 | <1 | <1 | <1 | <1 |
| | 35 | - | - | - | <1 | <1 | <1 | <1 |
| | 36 | - | - | - | - | - | <1 | <1 |
| Christopher Brook | 33 | - | - | - | 0.0 | 0.0 | 0.0 | 0.0 |
| Tracy Brook | 25 | - | - | - | - | - | - | 0.0 |
| Overall mean | | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total number of estimates | | 18 | 25 | 26 | 31 | 30 | 34 | 38 |

TABLE 9. Calculated densities of sculpin, as determined by electroseining operations in the Restigouche River system, 1972-78.

| Stream | Site number | Density per 100 yd² (83.6 m²) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 |
| Restigouche River | 26 | <1 | <1 | 1.1 | 6.3 | 4.2 | <1 | 4.4 |
| | 27 | 1.1 | 2.2 | 2.2 | <1 | <1 | <1 | <1 |
| | 28 | - | <1 | 2.1 | <1 | <1 | 3.8 | 2.4 |
| | 29 | - | <1 | <1 | <1 | 1.1 | <1 | <1 |
| | 34 | - | - | - | 4.7 | <1 | <1 | <1 |
| Upsalquitch River | A | - | - | - | - | - | <1 | 1.5 |
| | B | - | - | - | - | - | - | 4.8 |
| | 1B | - | - | - | - | - | - | 1.9 |
| | D | - | <1 | <1 | 2.1 | <1 | <1 | 3.2 |
| | E | - | 3.4 | 3.3 | 2.7 | <1 | 1.1 | 3.3 |
| | G | - | <1 | 1.1 | 4.0 | 1.7 | <1 | 2.1 |
| | H | - | <1 | 1.4 | 6.1 | - | 1.2 | 6.3 |
| | L | - | - | - | - | - | - | 4.5 |
| Kedgwick River | 1 | 7.6 | 6.9 | 27.9 | 10.8 | 2.2 | 17.2 | 23.4 |
| | 2 | 3.4 | 16.3 | 6.7 | 8.0 | 3.3 | 3.7 | 2.4 |
| | 3 | 9.7 | 18.4 | 10.6 | 22.1 | 10.8 | 6.5 | 8.2 |
| | 15 | - | 61.8 | 71.5 | 40.7 | 37.1 | 15.0 | 9.2 |
| | 31 | - | - | 21.4 | 18.3 | 4.8 | 2.7 | 31.3 |
| Belle Kedgwick River | 6 | 22.1 | 47.1 | 69.7 | 69.7 | 32.3 | 24.0 | 6.9 |
| North Kedgwick River | 5 | 12.5 | 390.5 | 31.7 | 29.3 | 28.1 | 14.5 | 17.0 |
| | 8 | 11.3 | 81.9 | 46.2 | 118.3 | 29.6 | 24.1 | 6.3 |
| South Kedgwick River | 7 | 9.6 | 22.5 | 23.6 | 36.1 | 4.8 | 4.5 | 4.4 |
| | 14 | 90.5 | 166.4 | 145.1 | 165.4 | 67.0 | 32.6 | 41.6 |
| Gounamitz River | 9 | 27.5 | - | 168.4 | 101.1 | 77.7 | 28.3 | 37.4 |
| | 11 | 95.5 | 225.4 | 167.6 | 193.9 | 126.5 | 25.8 | 40.1 |
| | 12 | - | 473.9 | - | 172.3 | 229.8 | 37.9 | 22.7 |
| | 13 | 115.5 | 430.1 | 303.4 | 90.4 | 107.3 | 15.5 | 54.7 |
| North Gounamitz River | 23 | 52.0 | 129.4 | 103.7 | 187.5 | 48.8 | 27.7 | 29.5 |
| Five Fingers Brook | 19 | 9.9 | 259.8 | 33.4 | 51.5 | 14.5 | 8.2 | 30.8 |
| | 32 | - | - | - | 52.9 | 35.5 | 12.4 | 32.2 |
| Jardine Brook | 20 | 9.1 | 8.2 | 4.7 | 6.3 | 1.8 | 3.4 | 8.5 |
| Little Main Restigouche River | 21 | 8.8 | 15.4 | 18.9 | 29.3 | 6.1 | 5.5 | 2.5 |
| | 22 | 21.9 | 43.3 | - | - | - | 17.7 | 28.3 |
| | 30 | - | - | 1.4 | <1 | <1 | <1 | <1 |
| | 35 | - | - | - | 53.6 | 15.2 | 19.0 | 31.1 |
| | 36 | - | - | - | - | - | 226.4 | 193.1 |
| Christopher Brook | 33 | - | - | - | 93.6 | 26.2 | 26.2 | 35.0 |
| Tracy Brook | 25 | - | - | - | - | - | - | 60.2 |
| Overall mean | | 28.2 | 96.2 | 48.8 | 50.9 | 30.7 | 17.9 | 20.9 |
| Total number of estimates | | 18 | 25 | 26 | 31 | 30 | 34 | 38 |

TABLE 10. A summary of miscellaneous data collected on sites of the Restigouche River system electroseined in 1972.

| Stream | Site number | Area ($m^2$) | Average depth (cm) | Water temperature (°C) |
|---|---|---|---|---|
| Restigouche River | 26 | 323.95 | 20.3 | 16.7 |
| | 27 | 323.95 | 28.5 | 13.9 |
| | 28 | - | - | - |
| | 29 | - | - | - |
| | 34 | - | - | - |
| Upsalquitch River | A | - | - | - |
| | B | - | - | - |
| | 1B | - | - | - |
| | D | - | - | - |
| | E | - | - | - |
| | G | - | - | - |
| | H | - | - | - |
| | L | - | - | - |
| Kedgwick River | 1 | 323.95 | 41.4 | 14.4 |
| | 2 | 376.20 | 41.4 | 16.7 |
| | 3 | 313.50 | 20.8 | 13.3 |
| | 15 | - | - | - |
| | 31 | - | - | - |
| Belle Kedgwick River | 6 | 316.99 | 21.1 | 14.4 |
| North Kedgwick River | 5 | 315.82 | 16.0 | 16.7 |
| | 8 | 262.86 | 17.8 | 16.7 |
| South Kedgwick River | 7 | 313.50 | 35.6 | 15.6 |
| | 14 | 348.34 | 20.8 | 11.7 |
| Gounamitz River | 9 | 392.45 | 36.3 | 13.3 |
| | 11 | 313.50 | 18.5 | 13.3 |
| | 12 | - | - | - |
| | 13 | 297.25 | 30.5 | 11.1 |
| North Gounamitz River | 23 | 300.73 | 26.2 | 11.1 |
| Five Fingers Brook | 19 | 297.25 | 45.2 | 14.4 |
| | 32 | - | - | - |
| Jardine Brook | 20 | 391.88 | 22.9 | 12.2 |
| Little Main Restigouche River | 21 | 269.38 | 24.6 | - |
| | 22 | 275.76 | 18.5 | 8.9 |
| | 30 | - | - | - |
| | 35 | - | - | - |
| | 36 | - | - | - |
| Christopher Brook | 33 | - | - | - |
| Tracy Brook | 25 | - | - | - |
| Overall mean | | 320 | 27.0 | 13.8 |
| Total number of estimates | | 18 | 18 | 17 |

TABLE 11. A summary of miscellaneous data collected on sites of the Restigouche River system electroseined in 1973.

| Stream | Site number | Area ($m^2$) | Average depth (cm) | Water temperature (°C) |
|---|---|---|---|---|
| Restigouche River | 26 | 311.18 | 23.9 | 18.0 |
| | 27 | 522.27 | 14.2 | 37.0 |
| | 28 | 334.40 | 15.5 | 17.0 |
| | 29 | 334.40 | 33.0 | 19.5 |
| | 34 | - | - | - |
| Upsalquitch River | A | - | - | - |
| | B | - | - | - |
| | 1B | - | - | - |
| | D | 317.68 | 28.5 | 19.9 |
| | E | 363.66 | 34.8 | 16.0 |
| | G | 390.14 | 36.1 | 14.0 |
| | H | 325.11 | 28.2 | 16.5 |
| | L | - | - | - |
| Kedgwick River | 1 | 334.40 | 30.0 | 14.0 |
| | 2 | 303.98 | 39.9 | 14.4 |
| | 3 | 292.51 | 40.1 | 13.0 |
| | 15 | 245.67 | 38.4 | 8.0 |
| | 31 | - | - | - |
| Belle Kedgwick River | 6 | 338.11 | 19.8 | 13.0 |
| North Kedgwick River | 5 | 320.46 | - | 13.2 |
| | 8 | 351.81 | 30.0 | 18.0 |
| South Kedgwick River | 7 | 329.24 | 45.7 | 13.5 |
| | 14 | 336.07 | 22.4 | 12.2 |
| Gounamitz River | 9 | - | - | - |
| | 11 | 313.50 | 15.2 | 15.0 |
| | 12 | 228.37 | 33.8 | 11.5 |
| | 13 | 253.57 | 22.9 | 13.5 |
| North Gounamitz River | 23 | 258.60 | 28.2 | 12.5 |
| Five Fingers Brook | 19 | 228.50 | 27.9 | 14.4 |
| | 32 | - | - | - |
| Jardine Brook | 20 | 339.51 | 31.5 | 15.8 |
| Little Main Restigouche River | 21 | 275.62 | 25.7 | 24.0 |
| | 22 | 274.43 | 34.5 | 11.0 |
| | 30 | - | - | - |
| | 35 | - | - | - |
| | 36 | - | - | - |
| Christopher Brook | 33 | - | - | - |
| Tracy Brook | 25 | - | - | - |
| Overall mean | | 317 | 29.2 | 15.8 |
| Total number of estimates | | 25 | 24 | 25 |

TABLE 12. A summary of miscellaneous data collected on sites of the Restigouche River system electroseined in 1974.

| Stream | Site number | Area ($m^2$) | Average depth (cm) | Water temperature (°C) |
|---|---|---|---|---|
| Restigouche River | 26 | 336.72 | 32.5 | 15.8 |
| | 27 | 558.21 | 13.2 | 18.0 |
| | 28 | 473.74 | 22.4 | 21.0 |
| | 29 | 342.76 | 34.3 | 18.6 |
| | 34 | - | - | - |
| Upsalquitch River | A | - | - | - |
| | B | - | - | - |
| | 1B | - | - | - |
| | D | 382.98 | 27.4 | 14.0 |
| | E | 388.83 | 26.4 | 14.5 |
| | G | 395.70 | 32.8 | 14.0 |
| | H | 325.11 | 23.9 | 15.0 |
| | L | - | - | - |
| Kedgwick River | 1 | 334.40 | - | 14.5 |
| | 2 | 289.44 | - | 11.4 |
| | 3 | 281.94 | 38.4 | 11.5 |
| | 15 | 252.26 | - | 9.5 |
| | 31 | 408.71 | 23.6 | 16.8 |
| Belle Kedgwick River | 6 | 343.96 | - | 8.8 |
| North Kedgwick River | 5 | 293.53 | 24.1 | 15.5 |
| | 8 | 379.64 | 34.8 | 10.2 |
| South Kedgwick River | 7 | 385.81 | 38.1 | 11.0 |
| | 14 | 363.66 | 17.8 | 13.0 |
| Gounamitz River | 9 | 326.04 | - | 10.8 |
| | 11 | 319.89 | 18.8 | 12.0 |
| | 12 | - | - | - |
| | 13 | 305.02 | 20.1 | 11.5 |
| North Gounamitz River | 23 | 400.30 | 27.9 | 11.0 |
| Five Fingers Brook | 19 | 237.01 | - | 11.7 |
| | 32 | - | - | - |
| Jardine Brook | 20 | 334.40 | - | 15.5 |
| Little Main Restigouche River | 21 | 265.66 | 29.5 | 11.6 |
| | 22 | - | - | - |
| | 30 | 362.26 | - | 12.5 |
| | 35 | - | - | - |
| | 36 | - | - | - |
| Christopher Brook | 33 | - | - | - |
| Tracy Brook | 25 | - | - | - |
| Overall mean | | 350 | 27.0 | 13.5 |
| Total number of estimates | | 26 | 18 | 26 |

TABLE 13. A summary of miscellaneous data collected on sites of the Restigouche River system electroseined in 1975.

| Stream | Site number | Area ($m^2$) | Average depth (cm) | Water temperature (°C) |
|---|---|---|---|---|
| Restigouche River | 26 | 371.55 | - | 17.5 |
| | 27 | 362.26 | 18.8 | 16.5 |
| | 28 | 334.40 | 23.4 | 19.0 |
| | 29 | 334.40 | 35.8 | 17.8 |
| | 34 | 334.40 | 20.3 | 12.5 |
| Upsalquitch River | A | - | - | - |
| | B | - | - | - |
| | 1B | - | - | - |
| | D | 377.36 | 26.2 | 16.6 |
| | E | 326.46 | 22.4 | 14.0 |
| | G | 362.26 | 21.3 | 13.5 |
| | H | 325.11 | 23.4 | 15.5 |
| | L | - | - | - |
| Kedgwick River | 1 | 355.30 | - | 18.0 |
| | 2 | 289.44 | 32.0 | 18.0 |
| | 3 | 313.73 | - | 18.0 |
| | 15 | 255.21 | - | 13.0 |
| | 31 | 371.55 | 29.7 | 14.5 |
| Belle Kedgwick River | 6 | 325.25 | 18.5 | 10.3 |
| North Kedgwick River | 5 | 293.53 | 16.0 | 18.3 |
| | 8 | 334.40 | 31.0 | 13.5 |
| South Kedgwick River | 7 | 327.44 | - | 16.0 |
| | 14 | 339.18 | 15.0 | 17.5 |
| Gounamitz River | 9 | 334.40 | 30.2 | 13.5 |
| | 11 | 334.40 | 21.1 | 13.0 |
| | 12 | 318.61 | 23.4 | 11.5 |
| | 13 | 235.01 | 23.4 | 15.0 |
| North Gounamitz River | 23 | 310.25 | 23.6 | 14.3 |
| Five Fingers Brook | 19 | 248.94 | 26.2 | 17.0 |
| | 32 | 334.40 | 23.9 | 15.0 |
| Jardine Brook | 20 | 336.49 | 35.1 | 20.5 |
| Little Main Restigouche River | 21 | 312.10 | 24.9 | 14.5 |
| | 22 | - | - | - |
| | 30 | 362.26 | 40.4 | 20.0 |
| | 35 | 203.71 | 35.1 | 12.5 |
| | 36 | - | - | - |
| Christopher Brook | 33 | 283.31 | - | 12.5 |
| Tracy Brook | 25 | - | - | - |
| Overall mean | | 321 | 25.6 | 15.5 |
| Total number of estimates | | 31 | 25 | 31 |

TABLE 14. A summary of miscellaneous data collected on sites of the Restigouche River system electroseined in 1976.

| Stream | Site number | Area ($m^2$) | Average depth (cm) | Water temperature (°C) |
|---|---|---|---|---|
| Restigouche River | 26 | 394.78 | 23.9 | 14.5 |
| | 27 | 362.26 | 18.3 | 14.0 |
| | 28 | 334.40 | 33.5 | 16.1 |
| | 29 | 250.80 | 31.5 | 12.5 |
| | 34 | 250.80 | 40.6 | 11.0 |
| Upsalquitch River | A | - | - | - |
| | B | - | - | - |
| | 1B | - | - | - |
| | D | 342.29 | 30.7 | 9.5 |
| | E | 326.46 | 28.5 | 17.5 |
| | G | 348.34 | 36.1 | 11.0 |
| | H | - | - | - |
| | L | - | - | - |
| Kedgwick River | 1 | 355.30 | 32.0 | 14.4 |
| | 2 | 289.44 | 39.4 | 12.0 |
| | 3 | 313.73 | 28.7 | 15.5 |
| | 15 | 261.07 | 25.9 | 9.5 |
| | 31 | 371.55 | 23.6 | 14.0 |
| Belle Kedgwick River | 6 | 321.79 | 23.9 | 11.5 |
| North Kedgwick River | 5 | 293.53 | 14.5 | 11.0 |
| | 8 | 178.64 | 22.1 | 8.0 |
| South Kedgwick River | 7 | 301.89 | 29.2 | 15.0 |
| | 14 | 339.18 | 22.1 | 13.3 |
| Gounamitz River | 9 | 334.40 | 23.4 | 12.0 |
| | 11 | 334.40 | 18.8 | 12.0 |
| | 12 | 234.08 | 23.6 | 13.0 |
| | 13 | 253.17 | 20.8 | 14.0 |
| North Gounamitz River | 23 | 312.10 | 20.6 | 11.0 |
| Five Fingers Brook | 19 | 263.81 | 31.0 | 20.0 |
| | 32 | 356.70 | 23.6 | 15.0 |
| Jardine Brook | 20 | 346.82 | 39.1 | 14.5 |
| Little Main Restigouche River | 21 | 312.10 | 21.1 | 17.5 |
| | 22 | - | - | - |
| | 30 | 362.26 | 34.5 | 15.0 |
| | 35 | 201.71 | 12.8 | 15.6 |
| | 36 | - | - | - |
| Christopher Brook | 33 | 287.95 | 24.9 | 13.0 |
| Tracy Brook | 25 | - | - | - |
| Overall mean | | 308 | 27.3 | 13.4 |
| Total number of estimates | | 30 | 30 | 30 |

TABLE 15. A summary of miscellaneous data collected on sites of the Restigouche River system electroseined in 1977.

| Stream | Site number | Area ($m^2$) | Average depth (cm) | Water temperature (°C) |
|---|---|---|---|---|
| Restigouche River | 26 | 323.26 | 33.3 | - |
| | 27 | 334.40 | 31.5 | 16.0 |
| | 28 | 334.40 | 29.7 | 16.0 |
| | 29 | 334.40 | 27.4 | - |
| | 34 | 268.45 | 31.0 | - |
| Upsalquitch River | A | 250.80 | 32.3 | - |
| | B | - | - | - |
| | 1B | - | - | - |
| | D | 356.97 | 24.9 | - |
| | E | 326.46 | 25.2 | - |
| | G | 334.40 | 29.2 | - |
| | H | 325.11 | 20.6 | - |
| | L | - | - | - |
| Kedgwick River | 1 | 344.67 | 31.0 | - |
| | 2 | 289.44 | 38.1 | 12.0 |
| | 3 | 288.98 | 33.8 | 12.0 |
| | 15 | 303.05 | 27.7 | 13.0 |
| | 31 | 371.55 | 23.4 | 13.0 |
| Belle Kedgwick River | 6 | 344.85 | 22.6 | 11.0 |
| North Kedgwick River | 5 | 304.67 | 14.5 | 13.0 |
| | 8 | 336.72 | 36.6 | 16.0 |
| South Kedgwick River | 7 | 325.11 | 31.0 | 12.0 |
| | 14 | 354.19 | 22.1 | 9.0 |
| Gounamitz River | 9 | 303.74 | 29.0 | 12.0 |
| | 11 | 334.40 | 26.9 | 10.0 |
| | 12 | 321.86 | 35.8 | 12.0 |
| | 13 | 185.78 | 26.7 | 13.0 |
| North Gounamitz River | 23 | 314.13 | 30.2 | 10.0 |
| Five Fingers Brook | 19 | 286.10 | 27.7 | - |
| | 32 | 318.15 | 24.1 | - |
| Jardine Brook | 20 | 347.78 | 32.5 | - |
| Little Main Restigouche River | 21 | 312.10 | 21.3 | - |
| | 22 | 231.30 | 37.1 | - |
| | 30 | 362.26 | 36.6 | 19.0 |
| | 35 | 211.69 | 32.0 | - |
| | 36 | 231.09 | 28.2 | - |
| Christopher Brook | 33 | 305.14 | 32.0 | 11.0 |
| Tracy Brook | 25 | - | - | - |
| Overall mean | | 309 | 29.0 | 12.8 |
| Total number of estimates | | 34 | 34 | 18 |

TABLE 16. A summary of miscellaneous data collected on sites of the Restigouche River system electroseined in 1978.

| Stream | Site number | Area ($m^2$) | Average depth (cm) | Water temperature (°C) |
|---|---|---|---|---|
| Restigouche River | 26 | 260.09 | 25.9 | 16.0 |
| | 27 | 325.95 | 32.0 | 15.0 |
| | 28 | 334.40 | 33.3 | 16.0 |
| | 29 | 334.40 | 25.7 | 19.0 |
| | 34 | 287.95 | 33.8 | 20.0 |
| Upsalquitch River | A | 292.60 | 24.9 | 23.0 |
| | B | 264.74 | 32.3 | 15.0 |
| | 1B | 275.88 | 19.8 | 15.0 |
| | D | 350.75 | 25.9 | 16.0 |
| | E | 296.99 | 18.0 | 21.0 |
| | G | 334.40 | 28.5 | 18.0 |
| | H | 334.40 | 21.1 | 22.0 |
| | L | 356.97 | 27.2 | 11.0 |
| Kedgwick River | 1 | 334.40 | 23.6 | 21.0 |
| | 2 | 298.44 | 33.8 | 18.0 |
| | 3 | 284.47 | 33.3 | 18.0 |
| | 15 | 285.64 | 31.5 | 15.0 |
| | 31 | 325.11 | 24.9 | 19.0 |
| Belle Kedgwick River | 6 | 344.85 | 20.8 | 15.0 |
| North Kedgwick River | 5 | 315.82 | 20.8 | 14.0 |
| | 8 | 317.68 | 31.5 | 18.0 |
| South Kedgwick River | 7 | 322.09 | 36.1 | 14.0 |
| | 14 | 342.53 | 29.0 | 13.0 |
| Gounamitz River | 9 | 334.40 | 29.0 | 14.0 |
| | 11 | 334.40 | 24.6 | 16.0 |
| | 12 | 297.06 | 21.1 | 13.0 |
| | 13 | 240.91 | 21.8 | 15.0 |
| North Gounamitz River | 23 | 295.85 | 28.2 | 11.0 |
| Five Fingers Brook | 19 | 271.23 | 19.6 | 12.0 |
| | 32 | 302.19 | 26.2 | 14.0 |
| Jardine Brook | 20 | 374.34 | 34.8 | 16.0 |
| Little Main Restigouche River | 21 | 334.40 | 27.9 | 19.0 |
| | 22 | 226.83 | 29.0 | 16.0 |
| | 30 | 292.60 | 41.2 | 15.0 |
| | 35 | 251.64 | 31.5 | 17.0 |
| | 36 | 155.31 | 23.1 | 16.0 |
| Christopher Brook | 33 | 305.14 | 25.4 | 15.0 |
| Tracy Brook | 25 | 293.53 | 10.4 | 15.0 |
| Overall mean | | 303 | 27.0 | 16.2 |
| Total number of estimates | | 38 | 38 | 38 |

ACKNOWLEDGEMENTS

The authors are pleased to express their gratitude to E.J. Schofield, Biological Technician, who was responsible for the supervision of field staff and the collection and compilation/analyses of data during some years of these investigations, and to R.S. Blair (term employee) and J. Singer (seasonal employee), who assisted in the data compilations.

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